

AMENDMENTS TO THE SPECIFICATION

The objections to the Specification are noted, specifically with regard to the Abstract and the informalities of the disclosure.

I. With regard to the Abstract, Applicants respectfully request the first paragraph, on page 250, beginning at line 2 and ending at line 10, be replaced by the following paragraph:

This invention relates to novel methods for affecting, controlling and/or directing various reactions and/or reaction pathways or systems by exposing one or more components in a ~~heteroreaction~~ fuel cell reaction system to at least one spectral energy pattern. In a first aspect of the invention, at least one spectral energy pattern can be applied to a fuel cell reaction system. In a second aspect of the invention, at least one spectral energy conditioning pattern can be applied to a conditioning reaction system. The spectral energy conditioning pattern can, for example, be applied at a separate location from the reaction vessel (e.g., in a conditioning reaction vessel) or can be applied in (or to) the reaction vessel, but prior to other reaction system participants being introduced into the reaction vessel.

Further, Applicants request the second paragraph of the Abstract on page 250, lines 11 - 26 be deleted.

II. With regard to correction of the informalities noted in the Office Action, Applicants respectfully submit the following.

On page 112 of the Specification, Applicants hereby request replacement of the paragraph on line 11 with the following:

Figures 6a, 6b, 6c and 6d show[[s]] fractal diagrams.

With regard to the informality noted in the Office Action regarding page 113, line 26 of the Specification, the Amendments to the Drawings on page 8 of this reply render this objection moot.

On page 114 of the Specification, Applicants request replacement of the paragraph beginning at line 10 and ending at line 12 with the following:

Figures 30a and 30b show[[s]] plots corresponding to the emission spectrum of hydrogen. Specifically, Figure 30a corresponds to Balmer Series 2 for hydrogen; and Figure 30b corresponds to emission spectrum for the 456 THz frequency of hydrogen.

On page 117 of the Specification, Applicants request replacement of the paragraph beginning at line 14 and ending at line 15 with the following:

Figures 69a - 69f show[[s]] the frequencies of hydrogen listed horizontally across the Table; and the frequencies of platinum listed vertically on the Table.